

Material Safety Data Sheet

1. Identification of The Substance/Preparation and of The Company/Undertaking

1.1. Identification of the preparation: EPSON Ink Cartridge T516

1.2. Use of the substance/preparation: Inkjet Printing

1.3. Company/undertaking identification

Manufacturer/Distributor: EPSON EUROPE B.V.
Address: Entrada 701,
1096 EJ AMSTERDAM
The Netherlands

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TEL: +31-20-314-5000 **FAX:** +31-20-314-5100

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1.4. Emergency telephone: Giftnotruf Berlin +49 030 19240

2. Hazards Identification

2.1. Emergency Overview:

This ink does not meet the criteria for dangerous classification according to EU Directive 1999/45/EC. Nevertheless, one of its components does meet the criteria for dangerous classification according to EU Directive 67/548/EEC.

Ink component is a cyan liquid that may cause eye irritation. Avoid contact with eyes or clothing.

In the case of skin contact, wash with soap and water. Keep out of reach of children.

2.2. Potential Health Effects:

Eyes: Ink contact with eye may be mildly irritating. See Section 11 for Toxicology.

Skin: Ink contact with skin may cause irritation, swelling or redness. See Section 11 for Toxicology.

Inhalation: Intentional exposure to ink vapors (mist) will cause respiratory irritation. See Section 11 for Toxicology.

Ingestion: May cause upset stomach.

3. Composition/Information on Ingredients

This is an aqueous ink formulation

Ink Composition	CAS No.	EEC No.	EU registration No.	% By Weight	EU Symbols	EU R-phrase	EU OELs	Remark
Colorants	Trade secret	Trade secret	Not available for the moment	< 1	None	None	None	None
TEGBE	143-22-6	205-592-6	Not available for the moment	About 5	X _i	R-41	None	None
Diethylene glycol	111-46-6	203-872-2	Not available for the moment	10 - 15	X _n	R-22	None	None
Triethanolamine	102-71-6	203-0498	Not available for the moment	< 1	None	None	None	None
Proprietary organic materials	Trade secret	Trade secret	Not available for the moment	1 - 5	None	None	None	None
Glycerols	Trade secret	Trade secret	Not available for the moment	About 15	None	None	None	None
Water	7732-18-5	231-791-2	Exemption	balance	None	None	None	None

Please refer to the section 16, where the full text of each relevant R-phrase.

4. First Aid Measures

- 4.1. Eyes:** Immediately flush with room temperature, low pressure and clean water for at least 15 minutes. Seek medical attention if eye irritation continues.
- 4.2. Skin:** Wash surface areas with soap and water. Wash soiled clothing before wearing again. Consult a physician if irritation continues.
- 4.3. Inhalation:** Remove subject to ventilated fresh air. If not breathing, give artificial respiration right away. If breathing is difficult, give oxygen. Seek immediate medical attention.
- 4.4. Ingestion:** Seek medical advice; and attention if stomach continues to be upset.

5. Fire-Fighting Measures

- 5.1. Flammability:** Not Flammable
- 5.2. Extinguishing Media:** Dry chemical or carbon dioxide
- 5.3. Fire Fighting Instructions:** No special fire fighting procedures are required other than breathing apparatus. No special explosion hazards are known.

6. Accidental Release Measures

- 6.1. Personal precautions:** Eye or Skin protection required during clean-up. Use proper ventilation.
- 6.2. Environmental precautions:** Do not release to sewer, surface- or ground-water.
- 6.3. Methods for cleaning up:** If a spill occurs, use sponges to wipe-up ink, then rinse area with damp cloth. Place waste in closed container for disposal. Do not dispose of waste to the sewer. Wash hands with soap and water.

7. Handling And Storage

- 7.1. Handling:** Keep out of reach of children and do not drink ink. Do not dismantle cartridge.
- 7.2. Storage:** Do not store the cartridge in high or freezing temperatures. Keep cartridge out of direct sunlight. Do not store cartridges with oxidizing agents or explosives. Make sure cartridge is dry before insertion into printer housing.
- 7.3. Specific use(s):** Not specified

8. Exposure Controls and Personal Protection

- 8.1. Exposure limit values:**
Australia: OELs
2, 2-Oxybisethanol (CAS No. 111-46-6)
The Time Weighted Average is: 23 ppm.
The Time Weighted Average is: 100 mg/m³
- 8.2. Exposure Controls:**
- 8.2.1. Occupational exposure control**
Proper ventilation, in prevention
- 8.2.1.1. Respiratory protection**
Not required under suitable use as setting the cartridge on the printer.
- 8.2.1.2. Hand protection**
Not required under suitable use as setting the cartridge on the printer.
- 8.2.1.3. Eye protection**
Not required under suitable use as setting the cartridge on the printer.
- 8.2.1.4. Skin protection**
Not required under suitable use as setting the cartridge on the printer.
- 8.2.2. Environmental exposure control**
Not established

9. Physical and Chemical Properties of Ink Formulation

9.1. General information

Appearance: Light Cyan Liquid
Odor: Slightly

9.2. Important health, safety and environmental information

pH: about 9.9 at 20°C
Boiling point: No data available
Flash point: Not detected until 95°C (Closed cup, ASTM D3278)
Flammability (solid, gas): None
Explosive properties: None
Oxidizing properties: None
Vapor pressure: No data available
Relative density: 1.068 at 20 °C
Solubility: No data available
Water solubility: Complete
Partition coefficient: n-octanol/water: No data available
Viscosity: Less than 5 mPa·s at 20 °C
Vapor density: No data available
Evaporation rate: No data available

9.3. Other information

Melting point: No data available

10. Stability and Reactivity

Stability: Stable under normal temperature
Hazardous polymerization: No data available

10.1. Conditions to avoid: High and freezing temperatures

10.2. Materials to avoid: Oxidizers and explosives

10.3. Hazardous decomposition products: None under normal temperature

11. Toxicological Information

Routes Of Overexposure: Eye, skin, inhalation, and oral

Acute Health Hazards:

- Overexposure of eye surface to ink may be mildly irritating
- Overexposure of skin to ink contact may cause irritation and in some people swelling and redness
- Intentional inhalation overexposure to ink vapors may result in respiratory tract irritation and anesthesia
- Intentional or accidental oral ingestion may cause an upset stomach

Chronic Health Hazards: None known

Mutagenicity: Negative (by Ames Test)

Carcinogenicity: Not contain any substances listed in IARC Monographs (1,2A and 2B)

Toxicity Data: Oral LD₅₀: > 2000mg/kg (Rats)

Dermal LD₅₀: > 2000mg/kg (Rats)

Inhalant LC₅₀: Not applicable

Eye irritating: Non irritating (Rabbits, OECD 405)

Skin irritating: Non irritating (Rabbits, OECD 404)

Skin sensitizing: Non-sensitizing (Guinea Pig, OECD 406)

12. Ecological Information

<i>12.1. Ecotoxicity</i>	No data available on the adverse effects of this ink on the environment
<i>12.2. Mobility</i>	No data available on the adverse effects of this ink on the environment
<i>12.3. Persistence and degradability</i>	No data available on the adverse effects of this ink on the environment
<i>12.4. Bioaccumulative potential</i>	No data available on the adverse effects of this ink on the environment
<i>12.5. Result of PBT assessment</i>	Has not carried out PBT assessment
<i>12.6. Other adverse effects</i>	No data available

13. Disposal Considerations

Disposal should be in accordance with federal, state, and local requirements.

14. Transport Information

UN Class/UN Number:	Not applicable
DOT, IMO, or IATA :	Not hazardous classification

15. Regulatory Information

EU Information:

Chemical Safety Assessment according to (EC)1907/2006:

This ink has not carried out any Chemical Safety Assessment yet.

Symbols and indication according to 1999/45/EC:

This ink does not meet the criteria for classification as dangerous.

US Information:

TSCA Section 4(a) Final Test Rules Regulated:	Not regulated
TSCA Section 8(a) Preliminary Assessment Information Rule (PAIR):	Not regulated
TSCA Section 8(a) Inventory Update Rule:	
Subject to a Special Regulatory Action under TSCA (2002 EPA Instructions, App. B)	Not regulated
TSCA Section 12(b) One-Time Export Notification Regulated:	Not regulated
California Proposition 65:	Not regulated

Canada Information:

WHMIS Controlled Product:	Not applicable (Manufactured article)
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Australia Information:

Statement of Hazardous Nature:	Not classified as hazardous according to criteria of NOHSC
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16. Other Information

<i>List of relevant R-phrases:</i>	<i>R-41</i>	Risk of serious damage of eyes.
	<i>R-22</i>	Harmful if swallowed.

This "Material Safety Data Sheet" contains health, safety, and environmental information. It does not replace any precautionary language or use and disposal information which accompanies the product. The information contained herein is believed to be accurate at the time of preparation, but should only be used as a guide. It is subject to revision from time to time. EPSON does not warrant the completeness or accuracy of the information contained herein.